



## SHOULDER-BELT-PORION GUIDING ASSEMBLY

### CROSS REFERENCE TO RELATED APPLICATIONS

This is a divisional application of the US-serial number 09/554,463 related to an international application number PCT/DE98/03270 (WO 99/24294, European Patent EP 1 037 773 B1, German Patent DE 197 49 780 C2) filed Nov. 10, 1998.

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention:

It is an object of the present invention to enhance the comfort of belt users of a transport system (motor vehicle, ship, train or aeroplane) and the survival chance in the event of any accident (front-, side-, rear-end collision and/or rollover or pile up/mass collision) or during in-flight turbulence.

#### 2. Discussion of the Prior Art:

It is known in the prior art to provide for a passenger of the transport system a seat belt, equipped with a shoulder-belt-portion guiding deflector with fixed height or a seat-belt-turning mechanism with fixed height to prevent neck injury.

Under constraint of great deformation of the post section, in which an extending belt portion of the seat belt, equipped with a belt retractor 13, having a clamping device, is arranged (Fig. 1), the shoulder belt portion, loosely guided by a conventional height-adjustable D-ring 12, attached to the post sections (pillars, pillar portions), or strangles the neck of the belted passenger and/or injures the aorta of his neck in real-world side-crashes, causing instant death.

Passenger, wanting to use the seat belt 1, must make an effort to grasp the main latch plate 9, when in resting position behind the seat backrest 3.2.

Ref. to US No. 5,570,933 both the shoulder belt portion of the three-point seat belt, loosely guided by the shoulder-belt-portion guiding deflector with fixed height, fixed to the seat backrest on the top and side edges, and the lap belt portion are attached to the post section. This shoulder-belt-portion guiding deflector with fixed height is uncomfortable for a passenger of extreme body proportion, when using the seat belt.